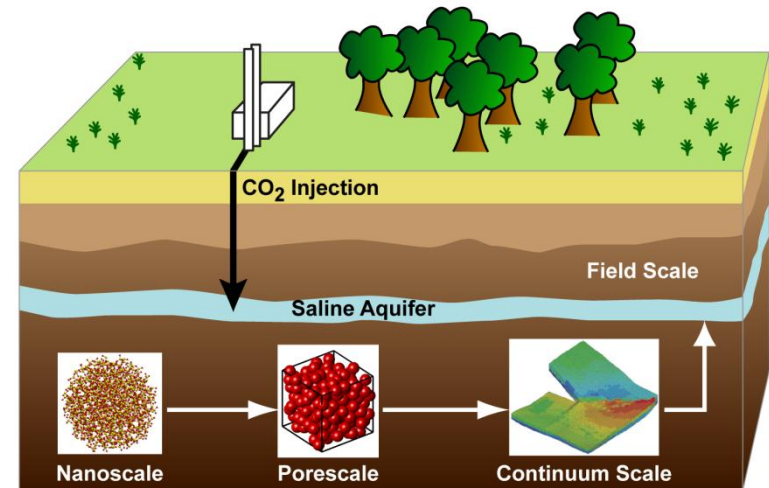




Summary statement: Our goal is scientific understanding of subsurface physical, chemical and biological processes from very small to very large scale so that we can predict the behavior of CO₂ and other byproducts of energy production that may need to be stored in the subsurface.



RESEARCH PLAN AND DIRECTIONS

- **Challenges and approaches:** Integrate and expand our knowledge of subsurface phenomena across scientific disciplines using both experimental and modeling approaches to better understand and quantify behavior far from equilibrium.
- **Unique aspects:** The uncertainty and complexity of fluids in geologic media from the molecular scale to the basin scale.
- **Outcome:** Better understanding of long term behavior of subsurface storage.